

IN THE CLAIMS:

Please cancel claims 1-3, 5, 7 and 8, and convert claims 4, 6 and 10 to independent form as set forth below:

1. (Cancelled)

2. (Cancelled)

3. (Cancelled)

4. (Currently amended) ~~The system of claim 3,~~ A real-time video radiation exposure monitoring system, comprising:

a Geiger-Müller tube;

an A/D converter having an input connected to said Geiger-Müller tube;

a computer;

wireless transmitting means connected to said A/D converter for transmitting digital data to said computer; and

a video camera linked to said computer,

wherein said computer is programmed to display video images from said camera simultaneously with data from said Geiger-Müller tube,

further comprising a variable-sensitivity meter circuit connected between said Geiger-Müller tube and said A/D converter, and means for encoding the sensitivity setting of said meter circuit and supplying the encoded sensitivity setting to said wireless transmitting means.

5. (Cancelled)

6. (Currently amended) ~~The system of claim 3;~~ A real-time video radiation exposure monitoring system, comprising:

a Geiger-Müller tube;
an A/D converter having an input connected to said Geiger-Müller tube;
a computer;
wireless transmitting means connected to said A/D converter for transmitting digital data to said computer; and
a video camera linked to said computer,
wherein said computer is programmed to display video images from said camera simultaneously with data from said Geiger-Müller tube,

further comprising a RISC microcontroller connected between said Geiger-Müller tube and said wireless transmitting means ~~data~~, wherein said A/D converter is contained in said RISC microcontroller.

7. (Cancelled)

8. (Cancelled)

9. (Cancelled)

10. (Currently amended) ~~The method of claim 8;~~ A method of assessing radiation exposure, comprising:

measuring radiation in an area of a workplace with a Geiger-Müller meter having an analog electronic circuit, wherein said Geiger-Müller meter is adapted for digital output with an A/D converter having an input connected to an output of said analog electronic circuit;
converting radiation readings from said Geiger-Müller meter to digital data using said A/D converter;
obtaining video images of said area as said measuring step is performed;
supplying radiation data from said Geiger-Müller meter to a computer by transmitting said digital data to said computer over a wireless link;
supplying said video images to said computer;

processing said radiation data and video images in said computer; and
displaying said radiation data and video images simultaneously on a display screen,

further comprising the step of detecting the sensitivity level of said Geiger-Müller meter and supplying said sensitivity level to said computer over said wireless link.

11. (Previously presented) The method of claim 10, further comprising the step of adapting said Geiger-Müller meter for digital output by connecting a RISC microcontroller with an internal A/D converter to an output of said analog electronic circuit.